AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

(Original) A structural sandwich plate member comprising:
first and second outer plates;

a core of plastics or polymer material bonded to said outer plates with sufficient strength to transfer shear forces therebetween; and

at least one interlayer within the core, said interlayer being generally parallel to the outer plates and having a higher tensile strength than the core material.

- 2. (Original) A structural sandwich plate member according to claim 1 wherein said interlayer comprises a metal, e. g. steel, stainless steel or aluminium, layer.
- 3. (Original) A structural sandwich plate member according to claim 2 wherein said interlayer has a thickness in the range of from 50% to 150% of the thickness of one of said outer plates.
- 4. (Original) A structural sandwich plate member according to claim 1 wherein said interlayer-comprises metal (e. g. steel, stainless steel or aluminium) mesh.
- 5. (Original) A structural sandwich plate member according to claim 4 wherein said metal mesh is formed of expanded metal.
- 6. (Original) A structural sandwich plate member according to claim 1 wherein said interlayer comprises a high tensile strength fabric.

BEST AVAILABLE COPY

- 7. (Original) A structural sandwich plate member according to claim 1 wherein said interlayer comprises a hard ceramic plate.
- 8. (Currently Amended) A structural sandwich plate member according to any one of the preceding claims claim 1 wherein said interlayer is corrugated, or dimpled or wave-formed.
- 9. (Currently Amended) A structural sandwich plate member according to any one of the preceding claimsclaim 1 comprising a plurality of interlayers.
- 10. (Currently Amended) A structural sandwich plate member according to any one of the preceding claimsclaim 1 wherein said interlayer is perforated.
- 11. (Currently Amended) A structural sandwich plate member according to any one of the preceding claimsclaim 1 wherein said interlayer does not extend over the whole area of said plate member.
- 12. (Currently Amended) A structural sandwich plate member according to any one of the preceding claims claim 1 wherein said outer plates are made of metal.
- 13. (Currently Amended) A structural sandwich plate member according to any one of the preceding-claimsclaim 1 wherein said outer plates have a thickness greater than or equal to3mm
- 14. (Currently Amended) A structural sandwich plate member according to any one of the preceding claimsclaim 1 wherein said core is made of a compact material.
- 15. (Currently Amended) A structural sandwich plate member according to any one of the preceding claimsclaim 1 wherein said core has a thickness greater than or equal to 15mm.

41

16. (Original) A method of manufacturing a structural sandwich plate member comprising the steps of:

providing first and second outer plates in a spaced-apart relationship with at least one interlayer located therebetween and spaced from each of said outer metal plates;

injecting uncured plastics or polymer material to fill the space defined between said outerplates and either side of said interlayer; and

allowing said plastics or polymer material to cure to bond said outer plates together with sufficient strength to transfer shear forces therebetween;

wherein said interlayer has a higher tensile strength than the cured plastics or polymer material.

- 17.(Original) A method according to claim 16 wherein said step of injecting is carried out from both sides of the plate, either simultaneously or in two stages.
- 18. (Currently Amended) A method according to claim 16 or 17 claim 16 comprising the additional step of coating or impregnating the interlayer with plastics or polymer material prior to insertion into the cavity between the outer metal plates.

BEST AVAILABLE COPY